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- (71) Applicant: **INCYTE GENOMICS, INC. [US/US]; 3160 Porter Drive, Palo Alto, CA 94304 (US).**
- (72) Inventors: **ARNOLD, Lyle; Incyte Genomics, Inc., 6519 Dumbarton Circle, Fremont, CA 94555 (US). BEDILION, Tod; Incyte Genomics, Inc., 6519 Dumbarton Circle, Fremont, CA 94555 (US). BJELDANES, Erik; Incyte Genomics, Inc., 6519 Dumbarton Circle, Fremont, CA 94555 (US). THERIAULT, Thomas, P.; Incyte Genomics, Inc., 6519 Dumbarton Circle, Fremont, CA 94555 (US). LEI, Warren; Incyte Genomics, Inc., 6519 Dumbarton Circle, Fremont, CA 94555 (US).**
- (74) Agent: **OSMAN, Richard, Aron; Science & Technology Law Group 75 Denise Drive, Hillsborough, CA 94010 (US).**
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(54) Title: **NORMALIZATION CONTROLS AND DUPLEX PROBES FOR QUANTITATIVE HYBRIDIZATION REACTIONS**

(57) Abstract: Methods are provided for quantitatively determining the amount of polynucleotides in a sample. In one method, the distinct polynucleotide targets and standard polynucleotide targets are contacted with detectable probes and independently detectable single or double stranded complements to the standard targets under hybridization conditions. The hybridization pattern from the probe is compared to the hybridization pattern from the standard sequences to obtain quantitative information about the genetic profile of the labeled nucleic acid sample. Also provided are kits for the use of the methods.

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